SABININ, D.A.; GENKEL', P.A., professor; KURSANOV, A.L., akademik, redaktor; NICHIPAROVICH, A.A., professor, redaktor; KOLOSOV, I.I., doktor biologicheskikh nauk, redaktor; THUBETSKOVA, O.M.

kandidat biologicheskikh nauk, redaktor; SAMYGIN, G.A., redaktor; ZELENKOVA, Ye.V., tekhnicheskiy redaktor;

[Physiological principles of plant nutrition] Fisiologicheskie osnovy pitaniia rastenii. Moskva, Isd-vo Akademii nauk SSSR, 1955. 512 p. (MLRA 8:8)

(Plants--Mutrition)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720010-1"

## GREERL', P.A.; BOHRITSKAYA, M.A.; TSVETKOVA, I.V.

Effect of T.S.Mal'tsev's tillage methods on certain physiological characteristics of spring wheat. Fisiol.rast. 2 no.1:42-51 Ja-F '55. (MERA 8:9)

1. Institut fiziologii rasteniy imeni K.A.Timiryaseva i Pochvennyy institut imeni V.V.Dokuchayeva Akademii nauk SSSR, Moscow.

(Wheat) (Tillage)

# GENERL', P.A.; AZIZERKOVA, Z.S.

Results of a large-scale practical experiment with the method for inducing greater salt resistance in cotton. Pisiol.rast. 2 no.1:90-92 Ja-F '55. (MLRA 8:9)

l. Institut fisiologii rasteniy imeni K.A.Timiryaseva Akademii nauk SSSR, Moscow, i Institut botaniki Akademii nauk Amerb.SSR, Baku. (Cotton)

GENERL', P.A.; NOVOSELOVA, A.N.

Analysis of the drought resistance of spring wheat. Fisiol.rast. 2 no.3:199-208 My-Je \*55. (MIRA 8:11)

1. Institut fiziologii rasteniy imeni K.A.Timiryaxeva Akademii nauk SSSR, Moscow.

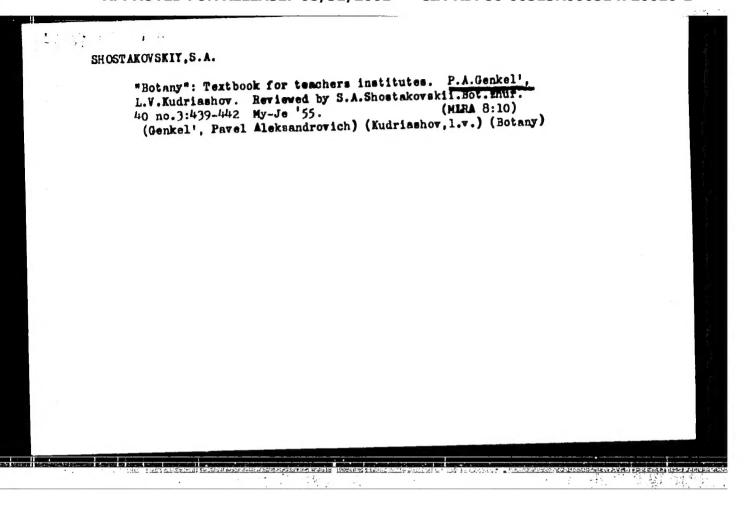
(Wheat--Water requirements)

GRHEBL', P.A.; SARYCHEVA, A.P.; SITHIKOVA, O.A.

Effect of variable temperature seed treatment on corn development and ripening. Pisiel.rast. 2 no.5:447-453 S-0 155. (NERA 9:2)

1.Kafedra betaniki Moskevskego oblastnego pedagogicheskogo instituta.

(Corn (Maise)) (Plants, Effect of temperature on)



#### CIA-RDP86-00513R000514720010-1 "APPROVED FOR RELEASE: 08/31/2001

GENKEL,

USSRAiology - Plant physiology

Card 1/1

Pub. 22 - 51/59

Authors

Genkel!, P. A., and Tsvetkova, I. V.

Title

Increase in heat resistance of plants

Periodical.

Dok. AN SSSR 102/2, 383-386, May 11, 1955

Abstract

Various means are discussed for increasing the heat resistance of various annual and perennial plants. Five USSR references (1924-1951). Tables.

Institution: Acad. of Sc., USSR, Inst. of Plant Physicl. im. K. A. Timiryazev

Presented by: Academician A. L. Kursanov, February 14, 1955

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720010-1"

OKNINA, Ye.Z.; BARSKAYA, Ye.I.; GENERL! P.A., otvetstvennyy redaktor; MAKAROVA, O.V., redaktor izdatel'stva; PAVLOVSKIY, A.A., tekhni-cheskiy redaktor

[Practical manual for determining the planting readiness of stratified seeds of the principal fruits] Prakticheskos rukovodstvo po opredeleniiu gotovnosti semian osnovnykh plodovykh kul'tur k posevu pri stratifikatsii. Moskva, Izd-vo Akademii nauk SSSR, 1956.
24 p. (MIRA 9:9)

(Fruit culture) (Seeds)

SHEER RESEARCHER SERVICE AND LOCAL

VASIL'YNV, Ivan Mitrofanevich; GENKEL!, P.A., professor, redaktor; STERNBERG, M.B., redaktor; FOLYAKOVA, T.V., tekhnicheskiy redaktor.

[Wintering of plants] Zimevka rastemii. Meskva, Izd-ve Akademii mauk SSSR, 1956. 307 p. (MLRA 9:6) (Plants--Freet resistance)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720010-1"

GEL'MAN, N.S.; ZENKEVICH, G.D.; SISAKYAN, N.M., otvetstvennyy redaktor; OPARIN, A.I., akademik, redaktor; KHRUSHCHOV, G.K., redaktor; GENKEL', F.A., professor, redaktor; GAYSINOVICH, A.Ye., kandidat blologichestikh nauk, redaktor; SINKINA, Ye.M., tekhnicheskiy redaktor

[Biochemistry of plants: a bibliography of Russian literature, 1738-1952] Biokhimiia rastenii; bibliograficheskii ukasatel otechestvennoi literatury, 1738-1952. Sost. N.S.Gel'man i O.D.Zenkevich. Otv. red. N.N.Sisakian. Moskva, 1956. 394 p. (MLRA 9:7)

1. Akademiya nauk SSER. Otdeleniyebiologicheskikh nauk. 2. Chlenkorrespondent AN SSER (for Sisakyan, Khrushchov) (Bibliography-Botanical chemistry)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720010-1"

GRNKEL . P.A.

"Practical work on the physiology of plant growth and development."
U. Huge. Reviewed by P.A. Genkel'. Fiziol.rast. 3 no.1:94
Ja-F '56. (MLRA 9:5)
(Botany--Physiology) (Ruge, U.)

GENKEL'

Classics. History.

A-2

USSR/General Division.

Personalities.

Ref Zhur-Biologiya, No 20, 1957, 85041

Abs Jour

Author

P. A. Genkel'

Inst Title Celebrating the 85th Birthday of Leonid

Aleksandrovich Ivanov

Orig Pub

Fiziol. rasteniy, 1956, 3, No 3, 292-296

Abstract

The article marks the jubilee of the phytophysiologist L. A. Ivanov, corresponding member of the Academy of Sciences USSR, since 1922 (he was born in 1871). He established the interrelationship between the conditions of existence and the means of reproduction of algae. Ivanov's research on P metabolism in plants brought new ideas on the transformation of phosphorous

Card 1/2

CIA-RDP86-00513R000514720010-1" APPROVED FOR RELEASE: 08/31/2001

GENKEL', P.A.; AMTIPOV, H.I.

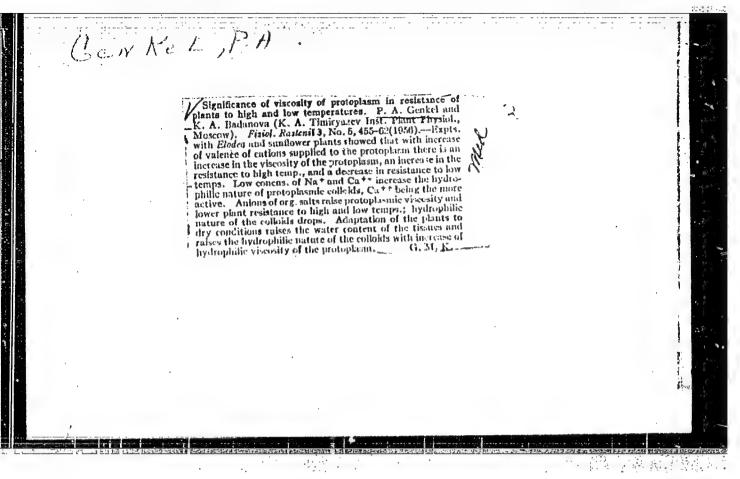
Water cycle of suhalephytes under natural circumstances. Piziel.rast.
(MIRA 9:9)

1 ne.4:337-342 Jl-Ag '56.

1.Institut fizielegii rastemiy imeni K.A.Timiryazeva Akademii mauk,
SSSR, Meskva.
(Halephytes) (Plants--Trampiration)

#### "APPROVED FOR RELEASE: 08/31/2001

#### CIA-RDP86-00513R000514720010-1



ORBIRL', P.A., professor.

A month in Italy. Hauka I shisn' 23 no.5:52-56 '56. (MIRA 9:8)
(Italy--Science)

GENKEL! P.A. doktor biologicheskikh nauk; BELIKOV, I.F., kandidat biologicheskikh nauk.

Aims of biological research in the Far Hast; out-of-town session of the Department of Biological Sciences in Vladivostok. Vest. AE SSSR 26 no.10:106-109 0 '56. (MEMA 9:11)

(Far Bast--Biological research)

A 1664 中国的国际

KURSAHOV, A.L., akademik, otvetstvennyy redaktor; TUMARCV, I.I., otvetstvennyy redaktor; ORNESE, P.A., professor, otvetstvennyy redaktor; nyy redaktor izdatolistve; ZELERECVA, Ye.V., textmiche-akiy redaktor

[In memory of Academician H.A.Maksimov; a collection of articles]
Pamiati akademika N.A.Maksimova; abornik statei. Hoskva, 1957.

(MINA 15:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Tumanov)

(Botany--Physiology)

GENKEL, P. A. and FAN I SUN'

"On the Physiological Importance of Viviparity in Mangrove Plants."

Inst. Plant Physiology in. K. A. Timiryazev, Acad. Sci. USSR and Inst. Plant Physiology, Chinese Academy of Sciences.

Acta Botanica Sinica, Vol 3, no 2, June 1957, p 59.

# "APPROVED FOR RELEASE: 08/31/2001

# CIA-RDP86-00513R000514720010-1

USSR I COUNTRY 1 Water Regimen. Plant Physiology. CATEGORY 1959, No. 24553 : RZhBiol., No.6 ABS. JOUR. Genkel', P.A.; Krapivina, A.T. AUTHOR Academy of Sciences, USSR On Cuticular Transpiration of Plants INST. TTTLE V sb.: Pamyati akad. N.A. Maksimova, 1957, 32-41 ORIG. PUB. : The mid-day rate of transpiration of leaves of long-fibered cotton growing in Vakhshakaya valley ABSTRACT stuadily dropped during the growing season. The authors explain this decrease by the aging of cuticular transpiration. Determination of cuticular transpiration in leaves of oak (Quercus) and birch (Betula) in Moscow showed that it was considerably higher in young plants than in old ones. Cuticular transpiration in apricot (Prunus armenisca and apple (Pyrus malus) in Central Asia, although also CARD: 1/2 21

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720010-1"

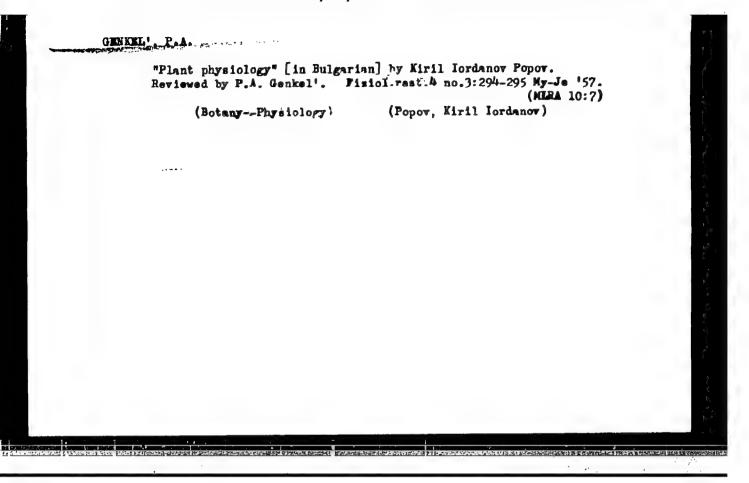
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BS. JOUR.	: RZhBiol., No. 6 1959, No. 24553	
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RIG. PUB.	<b>\$</b>	
BSTRACT	decreasing with are, remains at a high level aduring the growing season, which is an adapted of the plents to the reduction of leaf temperain conditions of very warm climate. The authoromaider the reduction of entirelar transpirates the plents are as a manifestation of the bigonetic law in plants. Bibliography of 33 title T. F. Koretskaya.	tion
WRD: 2/2		

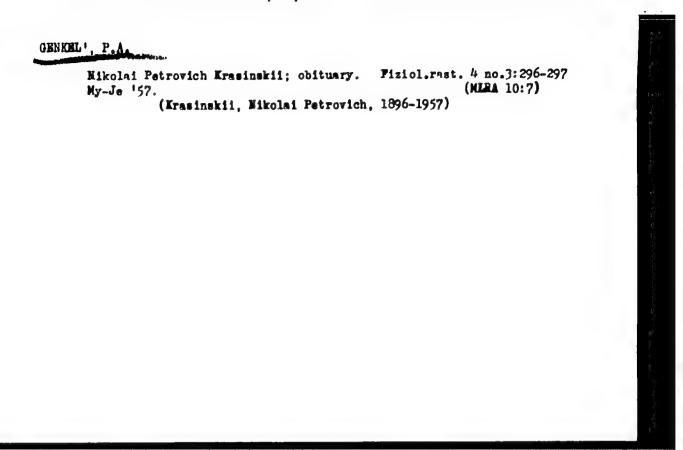
GENEEL', P.A.; ANDREYEVA, I.N.; YERMAKOVA, K.G.; TSVETKOVA, I.V.

Effect of the new tillage system on the basic features in the physiology of wheat. Isv. AN SSSR. Ser.biol. no.4:448-465 Jl-Ag '57. (MLRA 10:8)

1. Institut fiziologii rasteniy im. K.A.Timiryazeva Akademii nauk SSSR.

(TILLAGE) (WHEAT)





GENEEL. P.A.; MOROZOVA, R.S.

Electron microscope investigation of chloroplasts of Bellis perennis in connection with its transition to the state of winter dormancy [with summary in English]. Fixiol. rast. 4 no.6:509-513 B-D \*57.

(WIRA 10:12)

1. Instiut fixiologii rasteniy im. K.A. Timiryaneva AN 355E, Moskva.

(Chromatophores) (Bormancy (Flants)) (Electron microscopy)

25-9-3/40

AUTHOR:

Genkel', P.A., Doctor of Biological Sciences, Kushner, Kh.F.,

Professor

TITLE:

Biology Helps Agriculture (Biologiya - sel'skomu khozyaystvu)

PERIODICAL:

Nauka i Zhizn', 1957, # 9, p 5-9 (USSR)

ABSTRACT:

Soviet biology is following Professor I.V. Michurin's principles by not only trying to explain complex biological phenomena but also by mastering them and on such a basis to transform plant and animal organisms to suit the requirements of man. Michurin's methods led for instance to the development of new varieties of fruit trees which are able to stand the rough climate of Siberia and the Urals. During the long and cold winter, apple trees that spread on the ground are completely covered with snow and are thus well protected against frost. Making plants temperature-resistant is another task of Soviet scientists. By exposing swelled seeds of corn, sugar beet or peas to heat until they are dry, their properties change considerably and the drought-resistance is improved. The cells of such plants are very small and their leaf surfaces very large. In times of drought these plants hold more water than

Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720010-1"

Biology Helps Agriculture

25-9-3/40

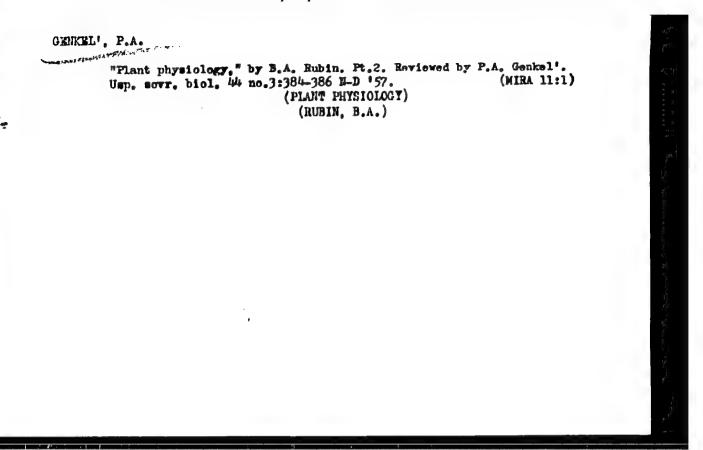
the unprocessed ones and produce better crops. Similar methods have been applied to make plants more salt-resistant. Cotton seeds soaked in salt water gave in Azerbaydzhan, on saline soil, crops of 20 - 40 % above the local average. Soviet scientists are pointing out the great importance of microelements for agricultural plants. Experiments conducted in the Ukraine have shown that the use of manganese fertilizers raised crops very considerably.

There are 7 figures.

AVAILABLE:

Library of Congress

Card 2/2



SOKOLOV, Andrey Vasil'yevich; KHRUSHCHOV, G.K., red.; GRNKEL1, P.A., prof., red.; GAYSINOVICH, A.Ye., kand.biol.nauk, red.; TYURIN, I.V., akademik, red.; POSPELOV, I.A., red.izd-va; GUSEVA, A.P., tekhn.red.

[History of agricultural chemistry in the U.S.S.R.] Ocherki is istorii agronomicheskoi khimii v SSSR. Moskva, Isd-vo Akad. nauk SSSR. 1958. 199 p. (NGRA 12:2)

1. Chlen-korrespondent AH SSSR (for Ehrushchov).
(Agricultural chemistry)

GENEEL Ravel Aleksendrovich; NEKHLYUDOVA, A.S., red.; TSYPPO, R.V., tekhn.red.

[Physiology of plants and principles of microbiology; textbook for polagogical institutes] Fisiologiia rastenii s cenevami mikrobiologii; uchebnik dlia pedagogicheskikh institutov.

Moskva, Gos. uchebno-pedagog. isd-vo M-va prosv. RSFSR, 1958.

462 p. (MIRA 12:1)

(Botany--Physiology) (Microbiology)

307-25-58-10-26/48

A UTHOR:

Genkel', P.A., Doctor of Biological Sciences, Professor

TITLE:

In the Tropics of China (V tropikakh Kitaya)

PERIODICAL:

Nauka i zhizn', Nr 10, 1958, pp 59 - 64 (USSR)

ABSTRACT:

Together with B.A. Rubin, Professor of Moscow University, the author visited the tropical zones of China. He gives a detailed description of his trip through the country with special regard to the study of tropical plants. There are 6

photographs and 2 drawings.

1. Plants--China

Card 1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720010-1"

AUTHOR: Genkel', P. A., Doctor of Biological Sciences SOV/30-58-10-14/35

TITLE: Physiology of Plant Stability and Its Investigation in China

(Fiziologiya ustoychivosti rasteniy i yeye izucheniye v Kitaye) PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 10. pp 74-78 (USSR) ABSTRACT:

Apart from the work of the experts to Tsung-lo, Ying Hum-ch'ang, Lo Ch'en-ho, T'ang P'ei-sung, Lo Shih-weig, and others in the field of plant physiology in China, comparatively little has been done yet in the research field of plant stability. Last winter the

author of this article was invited by the Institut fiziologii rasteniy Akademii nauk Kitaya (Institute of Plant Physiology of the Chinese AS) to visit the Chinese People's Republic to inform the scientists of that country about some of the research methods and results obtained by Soviet scientists in this field. During his three months' stay he gave fourteen lectures and

reports in the cities of Peking, Canton, Nada, and Shanghai; he also performed laboratory experiments. In conjunction with Chinese scientists the cold resistance of plants (Agava

Sisalana). the germinative faculty of coffee seeds and others Card 1/2 were tested. Thanks to the Institut botaniki Yuzhnogo Kitaya

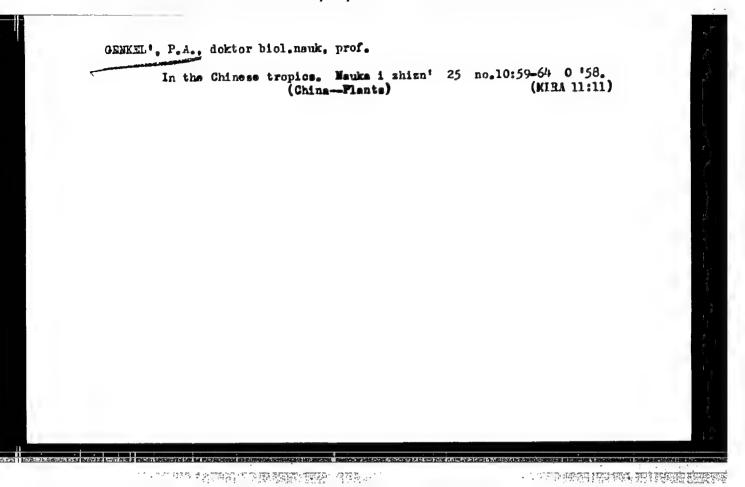
APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720010-1"

Physiology of Plant Stability and Its Investigation in China

(Botanical Institute of Southern China) it was made possible to carry on investigation in the tropical regions of the country where rubber plants (Hevea brasiliensis) are cultivated. Many laboratories are concerned with the study of rice. The author inspected the Pedagogicheskiy universitet Vostochnogo Kitaya (Pedagogical University of Eastern China). He also visited the Pekinskaya sel'skokhozy lystvennaya akademiya (Peding Academy of Agriculture), the sel'skokhozyaystvennyye instituty v Kantone i Shankhaye (Canton and Shanghai Institutes of Agriculture).

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720010-1"



CLWEI, F. A.

"Tre is portance of colloidal-chemical properties of the protoplasm for the physiology of plant resistance".

report presented at a Joint Mession of the Biological Mept. of AN UNSR and Biological and Ledical Mepts. AN Gruziya USR, Tbilizi, 28 Sept - 3 Oct 1957. Westnik Akad. Nauk Sock, 1958, Vol. 28, No. 1, pp. 121-125. (author Tzidzishvili, N. N.)

GENKEL', P. A.

"The Importance of Quiet in the Life of Plant Organisms. "

report presented at the Congress of Biological Research in the Moldavian SSR 16-21 Sept 1957, Moldavian Branch AS USSR organized together with VASMAIL. Vestnik AN SSSR, 1958, Vol. 28, No. 1, p. 125-126. (atthor Kosenko, I. Ye.)

GENREL F. M. HENCKEL, P.A.

"Drought resistance of Plants and Methods of Increasing It."
Paper submitted for the Int'l Botanical Congress, Montreal, Canada, 19-29 Aug 1959.

K.A. Timiriazev Inst. of Plant Physiology, Academy of Sciences U.S.S.R., Moscow.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720010-1"

OHNKEL', Pavel Aleksandrovich: KUSHNIRENKO, Svetlana Vasil'yevna;

[Prost resistance of cultivated plants and ways of increasing it] Kholodoustoichivost<sup>8</sup> kul<sup>8</sup>turnykh rastenii i puti ee povysheniia. Moskva, Isd-vo "Znanie," 1959. 31 p. (Vsesoiusnoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh snanii. Ser.8. Biologiia i meditsina. no.16) (MIRA 12:9) (Plants--Frost resistance)

FEDOROV, Aleksandr Konstantinovich; GENKEL\*, P.A., prof., otv.red.; SAMYGIE, G.A., red.izd-va; MAKUHI, Ye.V., tekhn.red.

[Developmental characteristics of overwintering plants]
Osobennosti razvitiia zimmiushchikh rastenii. Moskva, Izd-vo
Akad.nauk SSSR, 1959. 196 p. (MIRA 12:4)
(Plants--Frost resistance)

GENKEL', P.A., prof., otv.red.; ENDEL'MAN, G.N., red.izd-ve; MAKOGONOVA,

[Biological resources of the Far Mast; collection of articles]
Biologicheskie resursy Dalinego Vostoka; sbornik statei. Moskva,
Izd-vo Akad.nauk SSSR, 1959. 216 p. (MIRA 13:2)

1. Akademiya nauk SSSR. Dal'nevostochnyy filial. (Soviet Far Hast--Biological research)

GENKEL! P.A.: !!CROZOVA, R.S.

Electron microscopic study of chloroplasts of Bellis perennis in apring. Fiziol. rast. 6 no.5:575-578 S-0 '59. (MIRA 13:2)

1.K.A. Timiryazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Chromatophores)

PETINOV, Nikolay Stepanovich, doktor biolog.nsuk; GENKEL!, P.A., doktor biolog.nauk, otv.red.; IVANOV, V.P., red.izd-va; KASHINA, P.S., tekhn.red.

[Physiology of irrigated wheat] Fiziologiis oroshaemoi pshenitsy.
Moskva, Izd-vo Akad.nauk SSSR, 1959. 553 p. (MIRA 13:1)
(Wheat) (Irrigation farming)

GENERA! IN KHUM-CHAN [Ying Hung-ch'ang]; CHZHAO TUN-FAN [Chao T'ung-fang]; SHEN KUN-MYU [Sheng K'ung-miu]

Effect of low positive temperatures on Agava sisalana. Izv. Ali SSSR.Ser.biol. no.3:379-390 My-Je 159. (MIRA 12:9)

1. Institute of Plant Physiology, Academy of Sciences of the U.S.S.R., Moscow, and Institute of Plant Physiology of China. (CHINA--SISAL HEMP--DISMASES AND PESTS) (PIANTS, REFECT OF TEMPERATURE ON)

GENKEL', P.A. [Henckel, P.A.]

Pittieth anniversary of the publication of V.I.Lenin's book

"Meterialism and empiriceriticism." Fiziol.rest. 6 no.3:257-262

My-Je '59.

(Plant physiology) (Science--Philosophy)

#### 

GENKEL! . P.A.; KUSHNIRENKO, S.V.

Photosynthesis in tomato plants hardened against cold by subjection of seeds to variable temperatures. Fiziol. rast. 6 no.4:446-450 Jl-Ag 159. (MIRA 12:10)

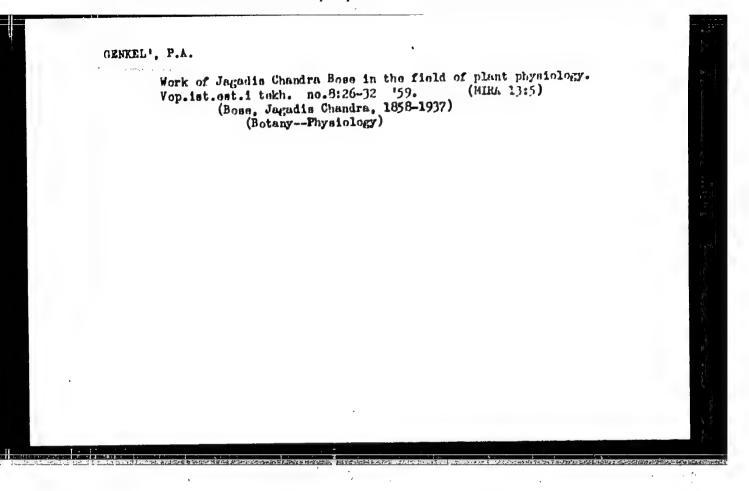
1.K. A. Timiriamev Institute Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Tomatoes) (Plants--Frost resistance)

(Photosynthesis)

GENERL', P.A.

Robert Brown; on the centennial of his death. Izv. AN SSSR Ser.biol. 24 no.1:139-143 Ja-F '59. (MIRA 12:2) (BROWN, ROBERT, 1773-1858)



GENKEL', P.A., prof., otv. red.; MATSYUK, L.S., kand. sel'khoz. nauk,

zam. red.; DIMO, N.A., red. [deceased]; DIKUSAR, I.G., doktor

sel'khoz. nauk, red.; YAROSHENKO, M.F., doktor biol. nauk, red.;

KOVARSKIY, A.Ye., doktor sel'khoz. nauk, red.; ZUBKOV, A.A., doktor

med. nauk, red.; PRINTS, Ya.I., doktor biol. nauk, red.; GENDEMAN,

T.S., kand. biol. nauk, red.; IVANOV, S.M., kand. bil. nauk, red.;

USPENSKIY, G.A., kand. biol. nauk, red.; GERGELEZHIV, A.K., kand.

tekhn. nauk, red.; FITOVA, L., red.; KAHYAKINA, I., red.;

KOCHANOVA, N., red.; TEL'FIS, V., tekhn. red.

[Papers of the United Scientific Session of the Department of Biological Sciences of the Academy of Sciences of the U.S.S.R., the Department of Agriculture of the V.I.Lenin All-Union Academy of Agricultural Sciences and the Moldavian Section of the Academy of Sciences of the U.S.S.R.] Trudy ob\*edinennoi nauchnoi sessii: Otdelenie biologicheskikh nauk AN SSSR, Otdelenie zemledeliia VASKHNIL, Moldavskii filial AN SSSR. Kishinev, Kartia Moldoveniaske. Vol.2. 1959. 483 p. (MIRA 15:5)

1. Ob"edinennaya nauchmaya sessiya, Kishenev, 1957. Zamestiteli akademika-sekretarya Otdoleniya biologicheskikh nauk Akademii nauk SSSR (for Genkeli). 2. Deystvitelinyy chlen Vsesoyuznoy akademii seliskokhozyaystvennykh nauk im. V.I.Lenina (for Dimo).

(Moldavia--Agricultural research--Congresses)

17(1) AUTHORS:

Genkel'. P. A., Zhivukhina, G. M.

SOV/20-127-1-61/65

TITLE:

The Process of Protoplasm Isolation as the Second Phase of Winter Wheat Hardening (Protsess obosobleniya protoplazmy kak vtoraya faza zakalivaniya ozimykh pshenits)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Hr 1, pp 220-223 (USSR)

ABSTRACT:

The plants resistant to frost are characterized by a period of long-lasting and profound rest. The resistance of the tissues of resting plants is determined on the whole by the conditional peculiarities of the plasma (Refs 1-3). The lacking of growth processes (Refs 4-8 for winter wheat), the reduced metabolism intensity as well as the protoplasm separation are characteristic of the period of rest. During the period of rest the content in growth substances is considerably reduced (Refs 9-12). In plants hardened against frost and in a state of rest the protoplasm is characterized by a higher viscosity and by a reduced permeability (Refs 18-19). The physiological processes are of little intensity in winter wheat (Rofs 20, 21). The state of rest is of little stability in winter crops. However, if winter wheat is stored during the winter in a warm room for a few days only,

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The Process of Protoplasm Isolation as the Second Phase of Winter Wheat Hardening

307/20-127-1-61/65

the growth processes start quickly in contrast to ligneous plants. The period of rest of the winter crops is very short because no profound transformation of the protective-and supply substances takes place in their cells and because they have no reserve fat which guarantees a stable state of rest (Ref 3). The transition to the state of rest takes place under the influence of autumn conditions of temporature and light. Under the same circumstances the hardening of the plants against low temperature takes place. Thus the transition to the period of rest and the hardening occur during the same period in the life of plants, and both reflect the same processes during the course of which the plants attain the resistance to frost. The hardening is attained in two stages: 1) accumulation of carbohydrates; 2) change of the physico-chemical protoplesm properties (Ref 2). In the present paper the cyto-physiological state of the winter wheat was investigated. The observations of the authors confirmed that the protoplasm becomes peeled off from the cell-coverings in the late autumn- and winter period. The degree of the state of rest differs in the individual organs of the winter wheat. The state of rest of the leaves

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The Process of Protoplasm Isolation as the Second Phase of Winter Wheat Hardening

SOV/20-127-1-61/65

is not long. The protoplasm is partly detached only in a few epidermic cells. In autumn and winter, a concave plasmolysis is predominant. At the turn of the year many damaged and dead cells appear. The most complete rest (according to the number of cells with separated protoplasm), and the most stable (according to the length of separation) were found in the growth cone and in the tillering knots (Fig 1). The observations of the authors showed: 1) that the protoplasm separation from the cell walls begins after the first stage of the hardening, that is the accumulation of the soluble carbohydrates in the cells, and 2) that this separation begins at slight frost. In other words, the conditions of the separation process of the protoplasm are exactly the same as those at which the second stage of hardening of the winter crops is attained which is connected with the physico-chemical changes of the

Card 3/4

The Process of Protoplasm Isolation as the Second Phase of Winter Wheat Hardening

S07/20-127-1-61/E5

protoplasm. The said separation occurs obviously just in the second hardening stage and forms the final stage of the development of the resistance to frost of the winter crops under autumn conditions. There are 1 figure, 1 table, and 22 references, 21 of which are Soviet.

ASSOCIATION: Institut fiziologii rasteniy im. K. A. Timiryazeva Akademii

nauk SSSR (Institute of Plant Physiology imeni K. A.

Timiryazev of the Academy of Sciences, USSR)

PRESENTED: February 2, 1959, by A. L. Kursanov, Academician

SUBMITTED: February 2, 1959

Card 4/4

BOGOMOLOV, G.V., otv.red.; AMTIPOV-KARATAYKV, I.N., akademik, red.;

GENERAL, P.A., prof., doktor biol.nauk, red.; CHERVINSKIY,

V.F., doktor sel'skokhos.nauk, red.; PAVLOV, A.N., red.izd-va;

KASHIMA, P.S., tekhn.red.

[Problems pertaining to soil salinisation and water resources]
Problems sasolenia pochw i vodnykh istochnikov. Moskva, 1960.
173 p. (MIRA 13:10)

1. Akademiya nauk SSSR. Meshduvedomstvennaya komissiya po isucheniyu sasushlivykh i polusasushlivykh son. 2. Chlen-korrespondent AN Belorusskoy SER; Meshduvedomstvennaya komissiya po isucheniyu sasushlivykh i polusasushlivykh son SSSR Soveta po isucheniyu proisvoditel'nykh sil pri Presidiume AN SSSR (for Bogomolov).
3. AN Tadshikskoy SSR (for Antipov-Karatayev). 4. Institut fisiologii rasteniy im. K.A.Timiryaseva AN SSSR (for Genkel').

(Alkali landa) (Water, Underground) (Irrigation)

REYFMAN, Vladimir Grigor'yevich; GENKEL', P.A., prof., etv.red.;

OGANOVA, B.A., red.isd-ve; PCETAKOVA, T.V., tekhn.red.

[Internal brown spot in potatoes] Priroda rahavosti kartofelis.

Moskva, Izd-vo Akad.nauk SSSR, 1960. 190 p.

(MIRA 14:1)

(Potatoes--Diseases and pests)

KRUZHILIN, Aleksey Stepenovich; GENKEL', P.A., otv.red.; BELIK, V.F., red.izd-ve; POLKNOVA, T.V., tekhn.red.

[Interaction of stock and scion in plant grafts] Vsaimovliianie privois i podvois rastenii. Moskva, Izd-vo Akad.nauk SSSR, 1960. 271 p. (MIRA 13:7)

SAVEL'YAV, Nil Mikhaylovich; GENKKL', P.A., prof., otv.red.; KLYUSHKIN, P.A., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Biological principles underlying the cultivation of alfalfa for seed production in Western Siberia] Biologicheskie osnovy vozdelyvaniia semennoi liutserny v Zapadnoi Sibiri. Moskva. Izd-vo Akad.nauk SSSR, 1960. 350 p. (MIRA 13:7)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR; Institut fiziologii rasteniy im. K.A.Timiryaseva AM SSSR (for Genkel').

(Siberia, Western-Alfalfa) (Seed production)

TUMANOV, I.I., prof., otv.red.; GENKEL, P.A., prof., otv.red.; STROGONOV, B.P., kand.biol.nauk, otv.red.; SAMYGIN, Yu.A., red.izd-va; KASHINA, P.S., tekhn.red.; RYLINA, Yu.V., tekhn.red.

[Physiology of hardiness in plants; frost resistance, drought resistance, and salt tolerance. Transactions of the conference of March 3-7, 1959] Fiziologiia ustoichivosti rastenii; morozo-ustoichivosti, sasukhoustoichivosti i soleustoichivosti. Trudy konferentsii, 3-7 marta 1959 g. Moskva, 1960. 776 p.

(MIRA 13:12)

1. Akademiya nauk SSSR. Institut fiziologii rasteniy. 2. Institut fiziologii rasteniy im. K.A.Timiryazeva AN SSSR, Moskva (for Tumanov, Genkel, Strogonov). 3. Chlen-korrespondent AN SSSR (for Tumanov).

(Plants--Frost resistance) (Plants, Effect of aridity on)
(Plants, Effect of salts on)

KONAREV, V.I., prof., otv.red.; BELOZERSKIY, A.N., red.; GENKEL, P.A., prof., red.; SERGEYEV, L.I., prof., red.; MAZILKIN, I.A., kand. biolog.nauk, red.; KHANISLAMOV, M.G., kand.sel'skokhoz.nauk, red.; POROYKOV, Yu.D., red.; VALEYEV, G.G., tekhn.red.

[Biology of nuclein metabolism in plants; reports at the joint scientific session of Mov.25-28, 1958] Biologiia mukleinovogo obmena u rastenii; doklady ob edinennoi nauchnoi sessii. 25-28 noiabria 1958 g. Ufa, 1959. 181 p. (MIRA 13:6)

1. Akademiya nauk SSSR. Bashkirskiy filial, Ufa. Institut biologii. 2. Chlen-korrespondent AM SSSR (for Belozerskiy). 3. Institut biologii Bashkriskogo filiala Akademii nauk SSSR (for Konarev. Mesilkin, Khanislamov). (PLANTS--METABGEISM) (MUCLEIC ACIDS)

GENKEL', P.A.; TSVETSKOVA, I.V.

Use of gravel cultures in studying soil and atmospheric aridity. Fiziol. rast. 7 no. 5:610-615 460. (MIRA 13:10)

1. K.A. Timiriazev Institute of Plant Physiology, U.S.S.R., Academy of Sciences, Moscow.

(Plants-Soilles culture)

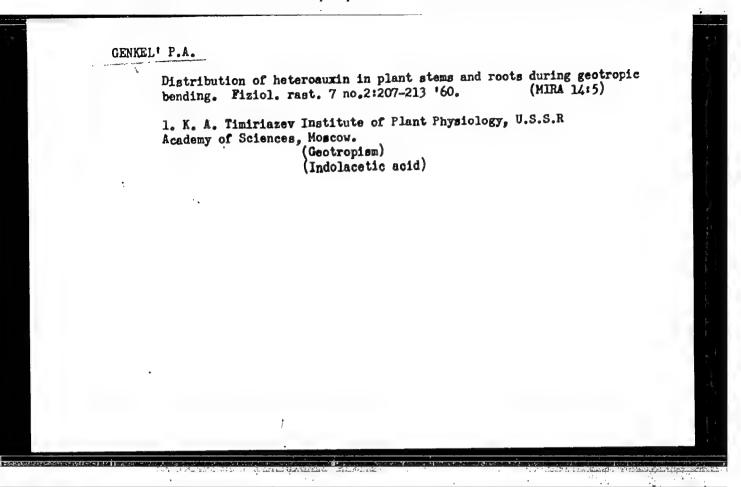
(Plants, Refect of aridity on)

GENKEL P.A.

Increasing the salt resistance of plants in soils with high sulfate concentrations. Izv. AN SSSR. Ser. biol. no. 4:550-561 J1-Ag '60. (MIRA 13:8)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva Akademii nauk SSSR.

(PLANTS, EFFECT OF SULFATES ON)



GENERA!, P.A.; BARSKAYA, Ye.I. Seasonal changes in chloroplasts of the spruce. Fisiol. rast. 7

> 1. K.A. Timiriasev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(MIRA 14:1)

(Spruce) (Chroma tophores)

no.6:645-653 160.

GENKEL', P.A.

Sixtieth birthday of Professor Fedor Danilovich Skazkin. Bot. shur.

45 no.12:1816-1818 D '60.

(Skazkin, Fedor Danilovich, 1900-)

ANTIPOV-KARATAYEV, I.N., akademik, red.; BOGOMOLOV, G.V., akademik, red.; GENKEL<sup>1</sup>, P.A., doktor biol. nauk, red.; FETINOV, N.S., doktor biol. nauk, red.; CHE VINSKIY, V.F., doktor sel'khoz. nauk, red.; SHAFRANSKAYA, M.Z., red. izd-va; YECOROVA, N.F., tekhn. red.

[Plant-water relations in arid regions of the U.S.S.R; [reports of Soviet scientists] Vodnyi rezhim rastenii v zasushlivykh raionakh SSR; [doklady sovetskikh uchenykh]. Hoskva, 1zd-vo Akad. nauk 3SSR, 1961. 274 p. (MIRA 15:3)

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Conditions, Madrid, 1959. 2. Akademiya nauk Tadzhikskoy SSR
(for Antipov-Karatayev). 3. Akademiya Belorusskoy SSR (for Bogosolov)4. Institut fiziologii rastoniy im. K.A.Timiryazeva Akademii nauk SSSR (for Genkel', Petinov).

(Plants-Water requirements)

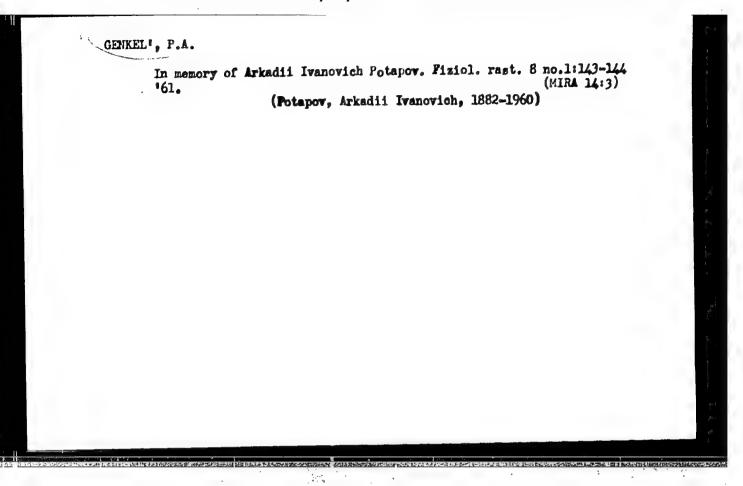
(Plants -- Water requirements) (Plants, Effect of aridity on)

GENKEL', P.A., prof.

Chlorella, a unicellular green alga as a source of organic matter and oxygen. Biol. v shkole no.3:76-80 My-Je '61.

(MIRA 14:7

1. Institut fiziologii rasteniy imeni K.A.Timiryazeva AN SSSR. (Algae)



GENKEL', P.A.

Increasing the draught resistance of plants. Vest. AN SSSR 31 no.10:91-95 0 '61. (MIRA 14:9)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR. (Plants--Water requirements)

#### 

STROGONOV, Boris Petrovich; GENKEL', P.A., otv. red.; MAKAROVA, O.V., red. izd-va; PRUSAKOVA, T.A., tekhn. red.; KASHINA, P.S., tekhn. red.

[Physiological foundations of the salt resistance of plansts; with regard to different types of soil salinization] Fiziologicheskie osnovy soleustoichivosti rastenii (pri raznokachestvennom zasolenii pochvy). Moskva, Izd-vo Akad. nauk SSSR, 1962. 365 p.

(MIRA 15:7)

(Plants, Effect of salts on)

GENKEL', Pavel Aleksandrovich, prof.; SHONIYA, A.L., red.; TSIRUL'NITSKIY, N.P., tekhn. red.; TSYPPO, R.V., tekhn. red.

[Plnat physiology and the principles of microbiology]Fiziologiia rastenii s osnovami mikrobiologii; uchebnik dlia pedagogicheskikh institutov. Izd.2., perer. 1 ispr. Moskva, Uchpedgiz, 1962.

[MIRA 16:1]

(PLANT PHYSIOLOGY) (MICROBICLOGY)

1

GENKEL', P.A., prof.

Increasing drught resistance of cultivated plants by means of hardening them before sowing. Biol. v shkole no.1:77-82 Ja-F

162.

1. Institut fiziologii rasteniy imoni K.A.Timiryazeva AN SSSR. (PLANTS\_HARDINESS)

(MIRA 16:2)

GENKEL', P.A., prof.; ANDREYEVA, I.N., kand.biologicheskikh nauk New scientific data on cellular structure. Biol.v shkele

no.6:83-88 N-D 162. 1. Institut fiziologii rasteniy imeni K.A.Timiryaseva AN SSSR.

(Electron microscopy)

GENKEL', P.A.; MOROZOVA, R.S.; PRONINA, N.D.

Ability for synthesis in drought-resisting tomato plants. Fiziol. rast. 9 no.1:80-85 '62. (MIRA 15:3)

1. K.A.Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Tomatoes--Varieties) (Plants, Effect of aridity on)

Microscope gives information on frost resistance. Nauka i zhizn' (NIRA 15:7)

29 no.4:41-43 Ap '62. (NIRA 15:7)

(Flants—Frost resistance)

GENKEL', P.A.

V.M. Lomonosov and his role in the development of Russian culture and science. Izv. AN SSSR. Ser. biol. no.3:461-472 My-Je '62. (MIRA 15:6) (LOMONOSOV, MIKHAIL VASIL'EVICH, 1711-1765)

GENKEL', P.A.; BARSKAYA, Ye.I.

Changes in the viscosity of the protoplasm in the ontogenesis of some herbaceous plants as related to their resistance to drought. Bot. zhur. 47 no.6:802-807 Je '62. (MIRA 15:7)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva, Akademii nauk SSSR, Moskva.

(Protoplasm)
(Plants, Effect of aridity on)

GENKEL', P.A., otv. red.; PRONINA, P.D., red.izd-va; YEGOROVA, N.F., tekhn. red.; RYLINA, Yu.V., tekhn. red.

[Physiology of tree species in the southern Far East]Fiziologiia drevesnykh porod iuga Dal'nego Vostoka. Moskva, Izd-vo Akad. nauk SSSR, 1963. 83 p. (MIRA 16:3)

1. Akademiya nauk SSSR. Dal'nevostochnyy filial, Vladivostok. (Soviet Far East-Trees-Physiology)

GENKEL', P.A., prof., otv. red.; PRONINA, N.D., red.izd-va; SUSHKOVA, L.A., tekhn. red.

[Physiology of soybean and potatoes in the Far East] Fiziologiia soi i kartofelia na Dal'nem Vostoke. Moskva, Izd-vo AN SSSR 1963. 132 p. (MIRA 16:10)

SABININ, Dmitriy Anatol'yevich, prof.; GHAYLAKHYAN, M.Kb., prof., otv. red.; KUPSANOV, A.L., akademik, red.; GENEEL', P.A., red., BLAGOVESHCHENSKIY, A.V., prof., red.; TRUBETSKCVA, C.M., kand. biol. nauk, red.; SHTERNEEIG, M.B., red. izd-va; SUSHKOVA, L.A., tekhn. red.; KASHINA, P.S., tekhn. red.

[Physiology of plant development]Fiziologiia razvitia rastenii. Moskva, Izd-vo Akad. nauk SSSR, 1963. 194 p. (MIRA 16:2)

1. Cheln-korrespondent Akademii nauk Armyanskoy SSR (for Chaylakhyan),

2. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for Genkel').

(Plant physiology)

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PETINOV, N.S., doktor bib.. have into party, red.; ALEKSEYEV, A.P., doktor biol. nauk, prof., red.; Gangid., P.A., doktor biol. nauk, prof., red.; GUSEV, N.A., doktor biol. nauk, red.; ZHOLKEVICH, V.N., 'Cd. d. have's nauk, red.; KUL'TIASOV, I.M., red.izd-va; UL'YANOVA, O.G., tokha. red.

[Water balance of plants as related to their metabolism and productivity] Vodnyi rezhim rastenii v sviazi s obmenom veshchestv i produktivnost'iu. Moskva, Izd-vo AN SSSR, 1963. 334 p. (MIRA 16:10)

GENKEL!, P.A.; PRONINA, N.D.

Extraction of protoplasts from dormant onion epidermis cells [with summary in English]. Fiziol. rast. 10 no.2:124-129
Mr-Ap '63. (MIRA 16:5)

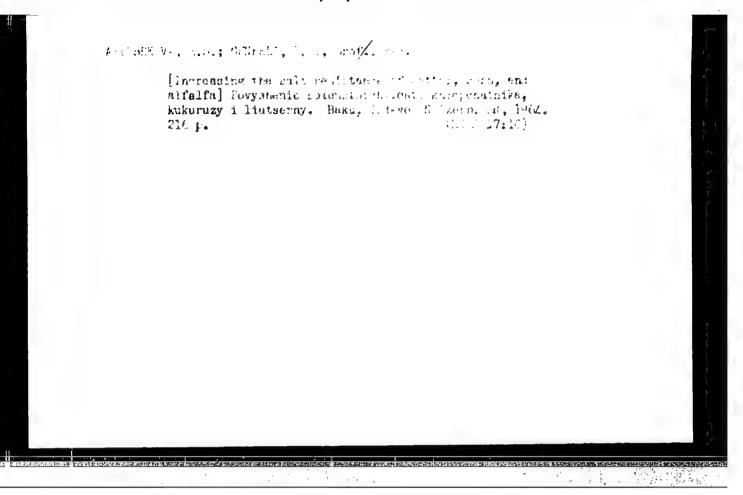
1. K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.
(Protoplasm) (Dormancy in plants)

GENKEL', P.A., prof.

Symposium on the Physiology, Biochemistry, and Ecology of the Germination of Seeds. Vest. AN SSSR 33 no.12:76-77

D '63.

(MIRA 17:1)



GENERAL, lavel Aleksandrovich; cakibl., Yekate dra kakharawa; FLOROFYEV, A.A., doktor biel. nauk, otv. red.; FASHKOVSKIY, Yu.A., red.

[State of the dormancy and frost resistance of fruit plants; Soutofante pokola i more mount of hivest' plants was remained. Moskva, Nauka, 1964. 241 p. () lak 1749)

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KURSANOV, A.L., akademik, otv. red.; OVCHA.OV, K.Ye., goktor bicl.
nauk, red.; GEIKEL', I.A., prof., red.; FOLYAKOV, I.M.,
prof., red.; FROKOTYEV, A.A., prof., red.; STROLA, I.G.,
kand. sel'khoz. nauk, red.; SEDENKO, D.M., red.; GENKEL',
K.P., red.; KHOR'KOV, Ye.I., red.

[Biological bases of increasing the quality of farm crop seeds; materials of a scientific session held November 26-30, 1963 in Moscow] Biologicheskie osnovy povysheniia kachestva semian seliskokhoziaistvennykh rastenii; materialy nauchnoi sessii, sostoiavsheisia 26-30 noiabria 1963 g. v Moskve. Moskva, Nauka, 1964. 278 p. (MIRA 18:3)

1. Akademiya nauk SSSR. Institut fiziologii rastenly.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514720010-1"

ZHURBITSKIY, Z.I., otv. red.; GHNKEL', P.A., red.; GUNAR, I.I., red.; POTAPOV, N.G., red.; FRASIL'NIKOVA, G.V., red.izd-va; GUS'KOVA, O.M., tekhn. red.

[Physiological basis for the plant nutrition system] Fiziologicheskoe obosnovanie sistemy pitaniia rastenii. Moskwa, Izd-vo "Nauka," 1964. 339 p. (MIRA 17:3)

1. Akademiya nauk SSSR. Institut fiziologii rasteniy.

ZHURBITSKIY, Z.I., otv. red.; GENKEL!, P.A., red.; GUNAR, I.I., red.; POTAFOV, N.G., red.; POTEKHINA, N.A., red.

[Role of mineral elements in the metabolism and productivity of plants] Rol' mineral'nykh elementov v obmene veshchestv i produktivnosti rastenii. Moskva, Izd-vo "Nauka," 1964. 358 p. (MIRA 17:7)

1. Akademiya nauk SSSR. Institut fiziologii rastenii.

GENKEL', P.A.; MART'YANOVA, K.L.; ZUBOVA, L.S.

Experiments on the presowing drought hardening of plants conducted under firm conditions. Fiziol. rast. 11 no. 3: 538-543 '64. (MIRA 17:7)

1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR, Moskva i Michurinskiy gosudarstvennyy pedagogicheskiy institut.

GENKEL!, P.A.; PRONINA, N.D.

Ability of plant cells to endure dehydration in the account state.
Fiziol. rast. 11 no.4:067-673 S1-Ag \*64.

(MIFA 17:11)

1. Institut fiziologli rasteniy ideni Timiryazeva AM SSER, Moskva.

GENKEL, P.A.; BAKANOVA, L.V.; SAMYGIN, G.A.

Freezing of plants with a low frost resistance. Fiziol.rast. 12
no.1:69-75 Ja-F \*\*165. (MIRA 18:3)

1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR, Moskva.

GENERAL PARAMOVA, 1.V.

Surface characteristics of the cell protophasts of plants in the state of domancy. Finich.rust. 12 no.4:659-664 J1-Ag 165. (MIRA 18:12) 1. Institut flatologii rartenty imeni K.A. Timiryazeva AN CSSR, Meckya, Submitted Murch 31, 1965.

Major track repairs in tunnels. Fut' i put. khoz. no.6:31 Je '59.

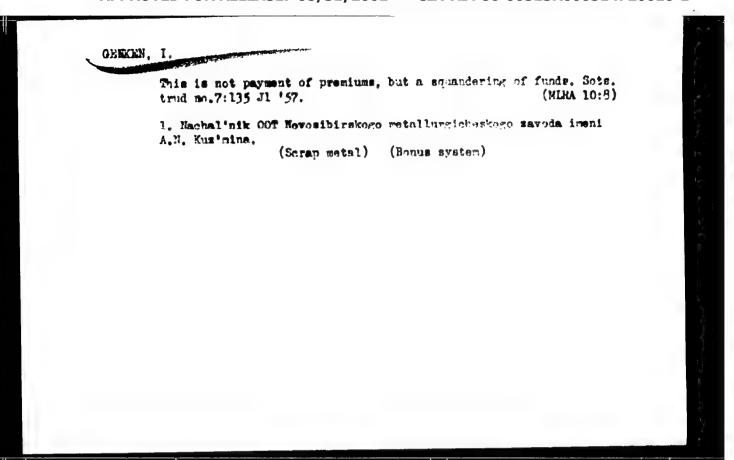
(MIRA 12:10)

1.Zamestitel' nauchal'nika distantsii puti, stantsiya Arkhara,
Amurskaya doroga.

(Railroads—Track) (Tunnels)

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GENKEN, I.; SLHAKOV, M.

What practice of the Novosibirsk Metallurgical Plant proves. Sots. trud 6 no.5:113-118 My '61. (MIRA 14:6)

1. Nachal 'nik otdela organizatsii truda Novosibirskogo metallurgicheskogo zavoda imeni A. N. Kuz'mina (for Genken).
2. Nachal 'nik otdela tekhqicheskogo kontrolya Novosibirskogo metallurgicheskogo zavoda imeni A. N. Kuz'mina (for Simakov).
(Novosibirsk—Steel industry—Quality control)

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MALITSEV, I., GENKEN, I.

Toward the cherished objective. Sov.profsoiuzy 7 no.9:15-17 My (MIRA 14:4)

l. Zamestitel predsedatelya zavkoma Novosibirskogo metallurgicheskogo zavoda imeni A.M.Kuzimina (for Malitsev). 2. Nachalinik otdela organizatsii truda, chlen zavkoma Novosibirskogo metallurgicheskogo zavoda imeni A.N.Kuzimina (for Genken).

(Novosibirsk-Steel industry) (Socialist competition)

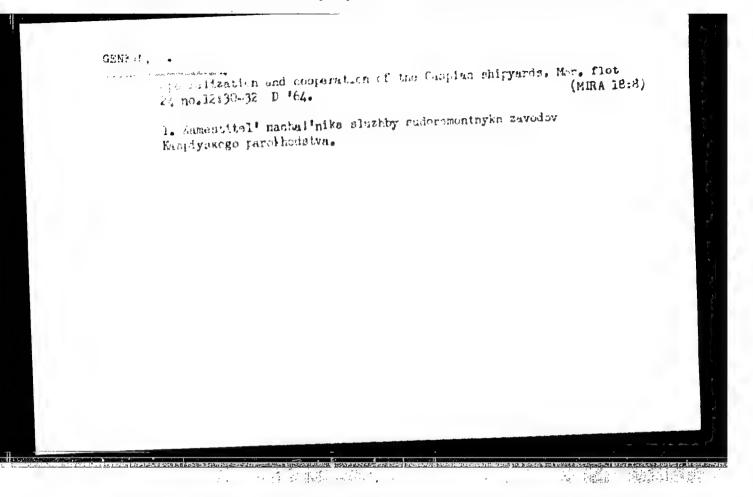
# GENKEN, I.

Volunteer labor organization office at the Novosibirsk Metallurgical Plant. Sots. trud 7 no.8:123-126 Ag '62. (MIRA 15:10)

1. Nachalinik otdela organizatsii truda Novosibirskogo metallurgicheskogo savoda.

(Neveribiral Steel industry-Labor productivity)

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GOLOVEFV, S.; GENKIN, A.; LEVIN, Ye.; FRYGIN, D.

Use of infrared rays. Zhii. stroi. no.9:28 '65.

(MERA 18:11)

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s/044/62/000/007/092/100 C111/C333

27.5000

AUTHORS:

Bodrov, V. A., Genkin, A. A., Zarakovskiy, G. M.

TITLE:

Some rules in the reaction of humans to text problems which model the difference between two possible solutions. Report I. The dependence of the error frequency upon the complexity and the probability of the signal

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 78-79, abstract 7V384. ("Dokl. Akad. ped. nauk RSFSR", 1961,

no.5,77-80)

The results of the following experiments are described: The test person must answer as quickly as possible with "yes" or "no" to the question whether the number given him orally is divisible by three. Fifteen test persons were told a total of 6286 numbers. It was found: The probability of the error is larger if the less probable signal (a number divisible by three) was given; the probability of the error grows in general with the complexity of the number (number of digits). The influence of the previous signal on the error probability is discussed. [Abstracter's note: Complete translation.] Card 1/1

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### "APPROVED FOR RELEASE: 08/31/2001

### CIA-RDP86-00513R000514720010-1

274000

AUTHOR:

Genkin, A. A.

TITLE:

Revelation of a specific local reaction of the brain in an electroencephalogram during complex activity

PERIODICAL: Referetivnyy zhurnal. Matematika, no. 6, 1962, 78-79, abstract 6V430 (Vopr. psikhologii, no. 6, 1961, 114-126)

TEXT: The correlations between the three channels of electroencephalograms are studied. Three bipolar electrodes are fitted above the left cerebral hemisphere (in the Brodman fields 39, 37, and 18) and are switched so that any two of the three electroencephalogram channels have a common electrode (Jasper circuit). The electroencephalogram pairs are

Card 1/3

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